PATENT COOPERATION TREATY







INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's o	or agent's file reference		ification of Transmittal of International ary Examination Report (Form PCT/IPEA/416)
nternationa PCTÆP 0	l application No. 2/08587	International filing date (day/month/year) 01.08.2002	Priority date (day/month/year) 01.08.2002
nternationa -104L1 <i>I</i> 00		C) or both national classification and IPC	
Applicant NOKIA C	ORPORATION et al		
1. This Auth	international prelimina ority and is transmitted	ry examination report has been prepared by th I to the applicant according to Article 36.	nis International Preliminary Examining
2. This	REPORT consists of a	a total of 5 sheets, including this cover sheet.	
⊠	heen amended and a	companied by ANNEXES, i.e. sheets of the de re the basis for this report and/or sheets conta Section 607 of the Administrative Instructions of a total of 2 sheets.	ining rectifications made before this Authority
3. This	report contains indica	tions relating to the following items:	
). I	□ Basis of the opi		
11	☐ Priority	111011	
 111	•	nent of opinion with regard to novelty, inventive	e step and industrial applicability
IV	☐ Lack of unity of		
V	□ Reasoned state	ement under Rule 66.2(a)(ii) with regard to now planations supporting such statement	velty, inventive step or industrial applicability;
VI	☐ Certain docume	ents cited	
VII	☐ Certain defects	in the international application	•
VIII	☐ Certain observa	ations on the international application	
Date of sub	omission of the demand	Date of complet	tion of this report
01.03.20	04	29.10.2004	
Name and preliminary	mailing address of the int	ernational Authorized Office - P.B. 5818 Patentlaan 2	COF
	 European Patent Office NL-2280 HV Rijswijk 	Pays Bas Ghigliotti, L	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 02/08587

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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages	
	1-16	6	as originally filed
	Clai	ims, Numbers	
	11 (part), 12-20	as originally filed
	1-3		received on 17.07.2004 with letter of 15.07.2004
	4-10	0, 11 (part)	received on 24.07.2004 with letter of 21.07.2004
	Dro	wings, Sheets	
		•	
	1/12	2-12/12	as originally filed
2.	Witl lang	h regard to the langu guage in which the int	age, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.
	The	se elements were av	ailable or furnished to this Authority in the following language: , which is:
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of pub	lication of the international application (under Rule 48.3(b)).
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).
3.	Wit	h regard to any nucle rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inte	rnational application in written form.
		filed together with th	e international application in computer readable form.
		furnished subseque	ntly to this Authority in written form.
		furnished subseque	ntly to this Authority in computer readable form.
		The statement that t in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.
		The statement that the listing has been furn	the information recorded in computer readable form is identical to the written sequence iished.
4.	The	e amendments have r	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/EP 02/08587

5. E	ב	This report has been established as if (some of) the amendments had not been made, since they have
· -	_	been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

No:

Claims

2-8, 11-17

Inventive step (IS)

Yes: Claims

2-8, 11-17

Claims No:

1, 9, 10, 18-20

1, 9, 10, 18-20

Industrial applicability (IA)

Yes: Claims

1-20

No: Claims

2. Citations and explanations

see separate sheet

Re Item V

- Reference is made to the following document:
 - D1: US2002/0071407 (Koo et al.)
- The present application does not meet the criteria of Article 33(1) PCT, because 2. 2.1. the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

The document D1 discloses (the references in parentheses applying to figure 8 of this document) a method of transmitting a block of digital data comprising:

- processing first and second data flows ("user information", 811; "side information", 851) in first and second manners (page 8, paragraph 97, lines 6-8);
- concatenating (827) data from the first and second processed data flows ("user information" 811; "side information" 851) and a code identifying said manners (TFCI, see page 8, right column, line 2) to produce a block of concatenated data (831);
- interleaving said block (page 8, right column, lines 12-15);
- transmitting said block (paragraph 96, last three lines).

In the last sentence of paragraph 98 of D1 (cf. also figure 8) it is stated that the process of building the DPCH comprises a secondary interleaving. In D1 it is then maintained that, as a result of the secondary interleaving, the user information and the side information may not be mapped onto the types of DPCH with fixed format. Document D1 does not provide further details on this issue and does not explain why

this mapping is not possible. However, for the skilled reader, the sentence implies that some other kind of mapping has to be carried out, or other types of DPCH formats should be used. In any case, both the mapping and the secondary interleaving are carried out (paragraph 98, lines 11-14 and 18-20).

As is well-known in the art, interleaving to the DPCH is generally carried out to provide some degree of time diversity to the data transmitted on the physical channel. Although document D1 is not explicit on the exact way the secondary interleaving is executed, the skilled person, willing to put into practice the teachings of D1, would apply interleaving in the most common way, i.e. on both transport channels and on the TFCI, to be able to protect both. Document D1 has no indication of the contrary.

On balance, it is concluded that the step of interleaving said block (831) of D1 is, at least implicitly:

such that the first and second data flows (811, 851) and said code (TFCI) are

EXAMINATION REPORT - SEPARATE SHEET

affected, as claimed in claim 1.

- 2.2. The system/method of figure 8 shows the presence of multiple (user) data flows in information "type 1", and they are also implied by the reference to UMTS on page 1, paragraph 4, 4th line).
- 2.3. The same reasoning applies, mutatis mutandis, to independent claim 10.
- 2.4. The subject-matter of dependent claims 18, 19, 20 is also disclosed in document D1, see paragraphs 2 and 4.

The subject-matter of dependent claim 9 is disclosed in document D1 (see paragraph 1).

The combination of the features of claims 2-8, 11-17 is neither known from, nor 3. rendered obvious by, the available prior art.

- 17 -

Claims

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1. A method of transmitting a block of digital data, the method comprising:
processing first and second data flows in first and second manners to
produce first and second processed data flows;

concarenating data from the first and second processed data flows and a code identifying said manners to produce a block of concatenated data;

interleaving said block such that the first and second data flows and said code are affected; and

transmitting said block.

- 2. A method according to claim 1, including establishing data representing a set of processing manners, said data defining a block size and a transmission time therefor for each processing manner, wherein the depth of said interleaving corresponds to a transmission time not greater than the least of said defined transmission times.
- 3. A method of transmitting a block of digital data, the method comprising:
 establishing data representing a set of processing manners, said data
 defining a block size and a transmission time therefor for each processing
 manner,

processing at least one data flow, the or each data flow being processed according to manners selected from said set of processing manners;

concatenating data from the or each data flow and a code identifying said selected manner or manners to produce a block of concatenated data;

interleaving said block; and

transmitting said block,

wherein the depth of said interleaving corresponds to a transmission time not greater than the least of said defined transmission times.

- 4. A method according to claim 2 or 3, wherein said defined transmission times are integer multiples of the transmission time corresponding to said interleaving depth.
- 5. A method according to claim 2, 3 or 4, including receiving a signal defining said set of processing manners.
- 6. A method according to claim 5, including storing data representing a plurality of processing manners and selecting from said stored data in response to said signal defining said set of processing manners.
- 7. A method according to any one of claims 2 to 6, wherein each processing manner includes an interleaving process definition.
- 8. A method according to claim 7, wherein interleaving according to an interleaving process definition is only performed if the transmission time of the same processing manner is greater than the least of the transmission times of said set.
- 9. A method according to any preceding claim, wherein said block is transmitted by radio waves.
- 10. A transmitter for transmitting blocks of digital data, the transmitter comprising processing means configured to:

process first and second data flows in first and second manners to produce first and second processed data flows,

concatenate data from the first and second processed data flows and a code identifying said manners to produce a block of concatenated data, and

interleave said block such that the first and second data flows and said code are affected; and

transmitting circuitry for transmitting said block.

11. A transmitter according to claim 9, wherein the processing means includes a memory storing data representing a set of processing manners, said data defining a block size and a transmission time therefor for each processing manner, and the processing means is configured such that the depth of said

Case: 41/481

Relevant to daim No.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04L1/00 H04L29/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

HO3M HO4L HO4Q IPC 7

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

Citation of document, with indication, where appropriate, of the relevant passages

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

X	WO 00 62465 A (ERICSSON TELEFON A 19 October 2000 (2000-10-19)	BLM)	1,5-9, 11-13, 37,42,43
Y	page 5, line 29 -page 6, line 8; page 8, line 1 - line 13 page 8, line 21 - line 25	figure 3	14-22, 24-26, 44-47, 49.50
	page 7, line 26 - line 31 page 10, line 6 - line 14 page 10, line 27 - line 29		49,50
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X Fur	ther documents are listed in the continuation of box C.	X Patent family members are listed	in annex.
"A" docum consi "E" earlier filing "L" docum which citalik "O" docum other	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or its cited to establish the publication date of another on or other special reason (as specified) tent referring to an oral disclosure, use, exhibition or means ent published prior to the international filling date but than the priority date claimed	 "T" later document published after the interpretation or priority date and not in conflict with cited to understand the principle or the invention "X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the decannot be considered to involve an indocument is combined with one or ments, such combination being obvious the art. "&" document member of the same patent 	the application but early underlying the claimed invention to be considered to current is taken alone claimed invention ventive step when the one other such docu-
	actual completion of the international search 21 October 2002	Date of mailing of the international se	0. 200 2
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3018	Authorized officer Papantoniou, A	

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pages 27-34, XP001094527 ISSN: 0932-6022 page 27, right-hand column, paragraph 1 page 28, left-hand column, paragraph 3 page 28, right-hand column, paragraph 1 EP 0 938 207 A (LUCENT TECHNOLOGIES INC) 25 August 1999 (1999-08-25) page 4, line 36 - line 40 page 5, line 41 - line 44 page 9, line 5 - line 22 WO 01 17283 A (ERICSSON TELEFON AB L M) 8 March 2001 (2001-03-08) 27,20 8 March 2001 (2001-03-08) 27,20 9 A line 1 - line 8 page 3, line 13 - line 16 page 4, line 6 - line 22 page 6, line 10 - line 25 page 7, line 2 - line 7 page 10, line 4 - line 18 page 11, line 3 - line 7		CHANNEL OPTIMISED B-ADJACENT CODE FOR UMTS" ITG FACHBERICHTE, VDE VERLAG, BERLIN, DE, vol. 170, 28 January 2002 (2002-01-28),		14,44
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page 3, line 1 - line 8 page 3, line 13 - line 16 page 4, line 6 - line 22 page 6, line 10 - line 25 page 7, line 2 - line 7 page 10, line 4 - line 18 page 11, line 3 - line 7		8 March 2001 (2001-03-08)	*	27,28, 30-32, 34-36, 51,52, 54-56,58
		page 3, line 13 - line 16 page 4, line 6 - line 22 page 6, line 10 - line 25 page 7, line 2 - line 7 page 10, line 4 - line 18 page 11, line 3 - line 7		29,53
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C (Cardia)	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	PC17-SE 02/00847
Category *	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to ctairn No.
X	EP 1 006 692 A (SIEMENS AG) 7 June 2000 (2000-06-07) column 7, line 7 - line 34	27,28, 30-32, 34-36, 51,52, 54-56,58
	claim 1; figure 5	07.51
A	EP 1 009 174 A (LG ELECTRONICS INC) 14 June 2000 (2000-06-14) column 2, line 19 - line 42 column 3, line 21 - line 40	27,51
A	BERG M ET AL: "Performance enhancements for the GSM/EDGE radio access network" VEHICULAR TECHNOLOGY CONFERENCE FALL 2000, vol. 6, 24 September 2000 (2000-09-24), pages 2720-2727, XP010525080 Boston, MA, USA page 2721, left-hand column, paragraph 1; figure 1	27,33, 51,57
X	LAU V K N ET AL: "Multiple access control protocol for integrated isochronous and bursty data services" IEE PROCEEDINGS: COMMUNICATIONS, INSTITUTION OF ELECTRICAL ENGINEERS, GB, vol. 147, no. 6, 11 December 2000 (2000-12-11), pages 311-316, XP006013999 ISSN: 1350-2425 page 311, right-hand column, paragraph 1 page 312, right-hand column, paragraph 2; figure 1	59-61, 76-78
X	HUARD J-F ET AL: "REALIZING THE MPEG-4 MULTIMEDIA DELIVERY FRAMEWORK" IEEE NETWORK, IEEE INC. NEW YORK, US, vol. 12, no. 6, November 1998 (1998-11), pages 35-45, XP000873126 ISSN: 0890-8044 page 36, right-hand column, paragraphs 3,4 page 37, left-hand column, paragraph 4 -right-hand column, paragraph 1 page 38, right-hand column, paragraph 1 figure 2	59,76
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	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	-	Balayani ta alaim No.	
ategory •	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
	GESSNER C ET AL: "LAYER 2 AND LAYER 3 OF UTRA-TDD" VTC 2000-SPRING. 2000 IEEE 51ST. VEHICULAR TECHNOLOGY CONFERENCE PROCEEDINGS. TOKYO, JAPAN, MAY 15-18, 2000, IEEE VEHICULAR TECHNOLGY CONFERENCE, NEW YORK, NY: IEEE,		1,37, 59-61, 76-78	
	US, vol. 2 OF 3. CONF. 51, 15 May 2000 (2000-05-15), pages 1181-1185, XP000968056 ISBN: 0-7803-5719-1 page 1182, left-hand column, line 1 - line			
	page 1183, left-hand column, line 1 - line			
	5 page 1183, left-hand column, line 24 -			
	line 30 page 1184, left-hand column, line 18 -			
	line 31 page 1184, right-hand column, line 19 - line 34 figure 3			
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INTERNATIONAL SEARCH REPORT

International application No. PCT/SE 02/00847

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)	
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:	
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows: see additional sheet	
1. As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	,
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-13, 37-43

A. 16

Variable puncturing and repetition of transport channel encoders / decoders whereby transport channels between the physical and a higher layer are collectively operable in response to transport format information.

2. Claims: 14-26, 44-50

Variable transport format information of transport channel encoders / decoders whereby transport channels between the physical and a higher layer are collectively operable in response to the type of modulation used.

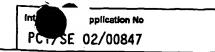
3. Claims: 27-36, 51-58

Transport format information combination and selection using a transfer format assembling apparatus responsive to a transport format combination descriptor the latter being responsive to a higher level service request.

4. Claims: 59-75,76-87

Selective enabling and disabling of transport channel encoders / decoders whereby transport channels between the physical and a higher layer are collectively operable.

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